

Curriculum Vitae

1. **Name:** Dr. Yogesh Kumar Prajapati, Assistant Professor
2. **Department:** Mechanical Engineering
3. **Email Id:** yogesh.me@bitsindri.ac.in
4. **Phone Number:** +91-7870166804
5. **Office Address:** M-23, Department of Mechanical Engineering
B.I.T. Sindri, Dhanbad – 828123, Jharkhand; India
6. **Qualification**



| S. No. | Degree (UG, PG, PhD) | Specialization | Institute | Year |
|--------|----------------------|--|---------------------------------------|------|
| 1. | Ph.D. | Thermal Fluid Engineering | IIT Patna, Bihar | 2015 |
| 2. | M.Tech | Thermal Science & Engineering | IIT Kharagpur, WB | 2009 |
| 3. | B.E. | Mechanical Engineering | SATI Vidisha, (MP) | 2007 |
| 4 | Intermediate | Physics, Chemistry, Math's, English, Hindi | Jharkhand Intermediate Council Ranchi | 2001 |
| 5 | Matriculation | Math's, Science, English, Hindi, Sanskrit | Bihar School Examination board | 1999 |

7. **Area of Specialization:** Thermal Fluid Engineering
8. **Ph.D. Guided:** Completed: 02, Ongoing: 02
9. **Research Projects**

| Title | Agency | Amount | Sanction date | Completed | Pi/Copi |
|--|-------------------------------------|-----------|---------------|------------|---------|
| Development of solar powered thermoelectric cooler using desiccant dehumidification | TEQIP Collaborative Research Scheme | 9,71,000 | 18/06/2019 | 03/01/2022 | CoPI |
| Design and investigate the performance of evacuated tube solar water heater equipped with nanocomposite PCM and thermal conductivity enhancer to cater the continuous hot water supply | DST-SERB Govt. of India | 17,55,640 | 04/09/2023 | Ongoing | PI |

10. **Subjects Taught**

| <u>UG Level</u> | | <u>PG Level</u> | |
|-----------------|-------------------------------|-----------------|------------------------------------|
| 1 | Engineering Mechanics | 1 | Design and analysis of Experiments |
| 2 | Fluid Mechanics and Machinery | 2 | Computational fluid dynamics |

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|----|------------------------------------|---|--------------------------------------|
| 3 | Engineering Thermodynamics | 3 | Co-generation and waste heat recover |
| 4 | Heat and Mass transfer | 4 | Advance Heat Transfer |
| 5 | Power plant Engineering | 5 | Research Methodology |
| 6 | Renewable Energy sources | | |
| 7 | Basic Mechanical Engineering | | |
| 8 | Refrigeration and Air conditioning | | |
| 9 | IC Engines | | |
| 10 | Design of Machine Element | | |
| 11 | Design of transmission Systems | | |

11. Professional Experience

I) Teaching Experience

| S. No. | Position held | Name of Organization | From | To |
|--------|----------------------------|------------------------------------|------------|------------|
| 1 | Assistant Professor | BIT Sindri, Dhanbad | 16.01.2023 | Till date |
| 2 | Assistant Professor (G-II) | NIT Uttarakhand | 16.06.2016 | 13.01.2023 |
| 3 | Assistant Professor | BML Munjal University Gurgaon | 31.07.2015 | 31.05.2016 |
| 4 | Assistant Professor | Graphic Era University Dehradun | 26.10.2009 | 13.07.2011 |

II) Research Experience

| S. No. | Position held | Name of Organization | from | to |
|--------|---------------|----------------------|------------|------------|
| 1 | PhD | IIT Patna | July, 2011 | May, 2015, |

III) Industrial Experience

| S. No. | Position held | Name of Organization | from | to |
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12. Publications:

I) International/National Journal

| S. No. | Title of the Paper | Name of the Journal | Vol./No | Year | Pages |
|--------|--|---|------------|------|-------------|
| 1 | Investigation of thermal performance and charging/discharging characteristics of finned coaxial evacuated tube collector filled with phase change material | Applied Thermal Engineering (SCI, IF = 6.4) | Vol. 238 | 2024 | 122048 |
| 2 | Experimental analysis of double layer microchannel heat sink with distinct fin configurations in upper and lower layers | International Journal of Thermal Sciences (SCIE, IF 4.7) | Vol. 203 | 2024 | 109177 |
| 3 | Melting and Heat Transfer Characteristics of Phase Change Material: A Comparative Study on Wire Mesh Finned Structure and Other Fin Configurations | ASME Journal of Heat and Mass Transfer (SCIE, IF 2.1) | Vol. 146 | 2024 | 062403-1-14 |
| 4 | Impact of fin arrangement on heat transfer and melting characteristics of phase change material. | Journal of Thermal Science (SCI, IF = 2.01) | Vol. 33 | 2024 | 435–456 |
| 5 | A review on design alteration in microchannel heat sink for augmented thermohydraulic performance | Ain Shams Engineering Journal (SCIE, IF = 6) | Vol. 15(2) | 2024 | 102417 |
| 6 | Design modifications in micro pin fin configuration of microchannel heat sink for single phase liquid flow: A review | Journal of Energy Storage (SCIE, IF = 8.9) | Vol. 66 | 2023 | 107548 |
| 7 | Heat transfer and melting characteristics of the phase change material inside U-tube based evacuated tube solar collector | Journal of Energy Storage (SCIE, IF = 8.9) | Vol. 62 | 2023 | 106918 |
| 8 | Thermal performance enhancement and optimization of double-layer microchannel heat sink with intermediate perforated rectangular fins | International Journal of Thermal Sciences (SCI, IF = 4.7) | Vol. 185 | 2023 | 108043 |
| 9 | Recent Advancements in Evacuated Tube Solar Water Heaters: A Critical Review of the Integration of Phase Change Materials and Nanofluids with ETCs. | Energies (SCI, IF = 8.5) | Vol. 15 | 2022 | 8999, 1-25 |
| 10 | Tar cracking enhancement by air sparger installation in the combustion zone of the downdraft gasifier | Biomass and Bioenergy (SCI, IF = 5.7) | Vol. 166 | 2022 | 106620 |
| 11 | Air-CO ₂ and oxygen-enriched air-CO ₂ biomass gasification in an autothermal downdraft gasifier: Experimental studies | Energy Conversion and Management (SCI, IF = 11.5) | Vol. 270 | 2022 | 116216 |
| 12 | CFD analysis of the downdraft gasifier using species-transport and discrete phase model | Fuel (SCI, IF = 8.0) | Vol. 328 | 2022 | 125302 |
| 13 | Influence of three dimensionality effects on thermal hydraulic performance for stepped micro pin fin heat sink | Meccanica (SCI, IF = 2.5) | - | 2022 | - |
| 14 | Influences of tip clearance on flow and heat transfer characteristics of open type micro pin fin heat sink | International Journal of Thermal Sciences (SCI, IF = 4.7) | Vol. 179 | 2022 | 107714 |
| 15 | Experimental investigation of desiccant dehumidification based thermoelectric air-conditioning system | Journal of Engg. Research (SCI, IF = 0.25) | - | 2021 | - |
| 16 | Fluid flow and heat transfer behavior in distinct array of stepped micro-pin fin heat sink | Journal of Enhanced Heat Transfer (SCI, IF = 1.4) | Vol. 28 | 2021 | 31-61 |
| 17 | Comparative Analysis of Heat transfer and fluid flow in Circular and Rhombus Pin Fin heat sink Using Nanofluid | ASME Journal of Thermal Science and Engineering Applications (SCI, IF = 1.5) | Vol. 13 | 2021 | 051028-14 |

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|----|---|--|----------|------|-------------|
| 18 | CFD analysis of biomass gasification using downdraft gasifier | Materials Today Proceedings (Scopus) | Vol. 44 | 2021 | 4107-4111 |
| 19 | Thermal performance of open microchannel heat sink with variable pin fin height | International Journal of Thermal Sciences (SCI, IF = 4.7) | Vol. 159 | 2021 | 106609 |
| 20 | Recent progress in thermochemical techniques to produce hydrogen gas from biomass: A state of the art review | International Journal of Hydrogen Energy (SCI, IF = 7.1) | Vol. 44 | 2019 | 25384-25415 |
| 21 | Influence of fin height on heat transfer and fluid flow characteristics of rectangular microchannel heat sink | International Journal of Heat and Mass Transfer (SCI, IF = 5.4) | Vol. 137 | 2019 | 1041-1052 |
| 22 | Flow boiling instabilities in microchannels and their promising solutions – A review | Experimental Thermal and Fluid Science (SCI, IF = 3.3) | Vol. 88 | 2017 | 573-593 |
| 23 | Numerical Investigation of Subcooled Flow Boiling in Segmented finned Microchannels | International communications in Heat and Mass Transfer (SCI, IF = 6.7) | Vol. 86 | 2017 | 215-221 |
| 24 | Bubble Dynamics and Flow Boiling Characteristics in Three Different Microchannel Configurations | International Journal of Thermal Sciences (SCI, IF = 4.7) | Vol. 112 | 2017 | 371-382 |
| 25 | Transient heat transfer characteristics of segmented finned microchannels | Experimental Thermal and Fluid Science (SCI, IF = 3.3) | Vol. 79 | 2016 | 134-142 |
| 26 | Clogging Behavior of an Elongated Bubble in Uniform and Diverging Microchannels | Journal of Mechanical Engineering science Part: C. IMechE (SCI, IF = 1.75) | Vol. 230 | 2016 | 1861-1875 |
| 27 | Transient analysis of microchannel heat sink during single phase and flow boiling conditions | Applied Mechanics and Materials | Vol. 819 | 2016 | 101-106 |
| 28 | Computational Fluid Dynamics Modeling of Two-phase Flow in an Adiabatic Capillary Tube | ASME Journal of Thermal science and Engineering Application (SCI, IF = 1.7) | Vol. 7 | 2015 | 011006 1-7 |
| 29 | A comparative study of flow boiling and heat transfer in three different configurations of microchannels | International Journal of Heat and Mass Transfer (SCI, IF = 5.4) | Vol. 85 | 2015 | 711-722 |
| 30 | Two-phase VOF model for the refrigerant flow through adiabatic capillary tube | ASHRAE Transactions (Scopus) | Vol. 120 | 2014 | 60-67 |

II) International Conference

| S. No. | Title of the Paper | Name of the Conference in which publication has been made | Vol./No. | Publication Year | Pages |
|--------|--|---|--------------------------|------------------|-----------|
| 1. | Experimental study of double layer microchannel heat sink with distinct channel configurations | 27 th National and 5th International ISHMT-ASTFE Heat and Mass Transfer Conference December 14-17, 2023, IIT Patna, Patna-801106 | - | 2023 | - |
| 2. | Comparative CFD analysis of heat transfer and melting characteristics of the PCM in enclosures with different fin configurations | 9th International and 49th National Conference on Fluid Mechanics and Fluid Power (FMFP) December 14-16, 2022, IIT Roorkee | - | 2022 | - |
| 3. | Sampling and Measurement of Tar in the Product Gas of the Downdraft Gasifier: A Case Study | | ISSN: 2688-7231 (Online) | 2021 | 2501-2505 |
| 4. | Heat Transfer Augmentation in Micro Pin Fin Heat Sink Using Out of Plane Fluid | | | | 1595-1600 |

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|-----|---|---|--------------------------|------|-----------|
| | Mixing | | | | |
| 5. | Experimental Investigation of Variable Tip Clearance in Square Pin Fin Microchannel Heat Sink | 26th National and 4th International ISHMT-ASTFE Heat and Mass Transfer Conference December 17-20, 2021, IIT Madras | | | 1351-1356 |
| 6. | Thermal Performance Studies on a Packed Bed Regenerator Using Wire Screen Matrix Air Heater | | | | 1181-1187 |
| 7. | Numerical Analysis of Heat Transfer Performance of Double Layer Microchannel Heat Sink with Semi-circular Bumps and Slits | | | | 709-714 |
| 8. | Numerical Simulation of Heat Transfer and Pressure Drop in Two Different Configurations of Pin Fin Microchannel Heat Sink | 8th International and 47th National Conference on Fluid Mechanics and Fluid Power (FMFP) December 09-11, 2020, IIT Guwahati | - | 2020 | - |
| 9. | Comparative Study of Heat Transfer Performance of Open and Closed Rectangular Microchannel Heat Sink | 25th National & 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference, 28-31 Dec 2019, IIT Roorkee | ISSN: 2688-7231 (Online) | 2019 | 329-334 |
| 10. | Thermodynamic Equilibrium Model of Downdraft Gasifier: Stoichiometric Model | Third International Conference on Sustainable Energy and Environmental Challenges (3rd SEEC) 18 –21 December, 2018, IIT Roorkee | - | 2018 | - |
| 11. | Investigation of heat distribution and thermal stress distribution of piston | International Conference on Computational Methods for Thermal Problems, IISc Bangalore India 9-11 July, 2018 | ISSN 2305-6924 | 2018 | 829-832 |
| 12. | Performance Analysis of Micro channels with Different aspect ratio (DES-137) | International Conference on contemporary design and analysis of Manufacturing and Industrial Engineering system, NIT Trichy India, 18-20 Jan 2018 | - | 2018 | - |
| 13. | Improved Model for Predicting Bubble Growth during Flow Boiling | 24th National and 2nd International ISHMT-ASTFE Heat and Mass Transfer Conference (IHMTTC-2017), BIT Hyderabad, 27-30 December 2017 | - | 2017 | 1589-1593 |
| 14. | Study of bubble dynamics in circular and diamond shaped pin fin microchannels | | 2027-2032 | | |
| 15. | Flow Visualization Study of Reverse Flow Phenomenon in Microchannel | 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power (FMFP), MNNITA, Allahabad, U.P., India, December 15-17, 2016 | - | 2016 | - |
| 16. | Effect of Inlet configurations on bubble Evolution in microchannel | International Conference on Recent trends in Engineering and Materials science, JNU Jaipur, March 17-19, 2016 | - | 2016 | - |
| 17. | Investigation of flow boiling heat transfer in segmented finned microchannels | 23rd National and 1st international ISHMT-ASTEF Heat and Mass transfer conference, ISRO, Thiruvananthapuram Kerala, December 17-20, 2015 | - | 2015 | - |
| 18. | Performance Analysis of Uniform and Expanding Cross-section Microchannels | 5th International and 41th national conference on Fluid Mechanics and Fluid Power (FMFP-2014) IIT | - | 2014 | - |

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| | for Single Phase and Flow boiling Heat Transfer | Kanpur, India, December 12-14, 2014 | | | |
| 19. | Experimental and numerical analysis of microchannel heat sink | International mechanical engineering congress (IMEC-2014), NIT Tiruchirappalli, India, June 12-15, 2014 | - | 2014 | 133-136 |
| 20. | A Comparative Study of Subcooled Flow Boiling in Uniform, Diverging Cross-section and Segmented Finned Microchannels | 12th International Conference on Nanochannels, Microchannels, and Minichannels, Chicago, Illinois, (USA) August 3-7, 2014 | - | 2014 | - |
| 21. | Numerical investigation of refrigerants flow through an adiabatic capillary tube | 22nd National and 11th ISHMT-ASME Heat and Mass Transfer Conference, IIT Kharagpur. December 28-31, 2013 | - | 2013 | - |

III) National Conference

| S. No. | Title of the Paper | Name of the Conference in which publication has been made | Vol./No. | Publication Year | Pages |
|--------|---|---|----------|------------------|---------|
| 1 | Experimental study to analyze the heat storing capacity and melting-solidification characteristics of the PCM | National conference on Waste to Energy, Carbon Capture, Utilization and Storage [NCWECCUS-2023] NIT Rourkela 22-24 Dec. 2023. | - | 2023 | - |
| 2. | Numerical investigation of flow boiling in microchannels | National conference on recent advances in Mechanical Engineering, NIT Kurukshetra 2-3 June 2017 | - | 2017 | - |
| 3. | Effects of surface wettability and cross section area on the evolution of an elongated bubble in a microchannel | 40th National conference on Fluid Mechanics and Fluid Power (FMFP-2013) NIT Hamirpur, India, December 12-14, 2013. | - | 2013 | 856-863 |

IV) Book Chapter

| S. No. | Title of the Chapter | Name of the Book in which publication has been made | ISBN | Publication Year | Pages |
|--------|--|--|-------------------|------------------|--------|
| 1 | Comparative CFD Analysis of Heat Transfer and Melting Characteristics of the PCM in Enclosures with Different Fin Configurations | Fluid Mechanics and Fluid Power, Volume 5. FMFP 2022. Lecture Notes in Mechanical Engineering. Springer, Singapore | 978-981-99-6073-6 | 2024 | 97-107 |
| 1. | Thermal Performance Study of a Copper U-Tube-based Evacuated Tube Solar Water Heater | Energy Conversion and Green Energy Storage" 1st edition, CRC press, Taylor & Francis | 9781003258209 | 2022 | - |
| 2. | Experimental Analysis of a Thermoelectric Air-Conditioning System with | Recent Advances in Industrial Production. Lecture Notes in Mechanical Engineering. | 978-981-16-5280-6 | 2022 | - |

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|----|---|---|-------------------|------|---------|
| | Desiccant Dehumidification | Springer, Singapore | | | |
| 3. | Numerical Study of Fluid Flow and Heat Transfer in Stepped Micro-Pin-Fin Heat Sink | Fluid Mechanics and Fluid Power | 978-981-16-0697-7 | 2021 | - |
| 4. | Analysis of Mechanical Behavior of Sandwich Panels | Advances in Engineering Design. Lecture Notes in Mechanical Engineering, Springer, Singapore. | 978-981-33-4018-3 | 2021 | 499-508 |
| 5. | A Numerical Study to Investigate the Modal Analyses of Cracked Airplane Wing (NACA2415) | Advances in Applied Mechanical Engineering. Lecture Notes in Mechanical Engineering. Springer | 978-981-15-1200-1 | 2020 | 405-411 |
| 6. | Numerical Analysis of Different Arrangement of Square Pin-Fin Microchannel Heat Sink | Advances in Mechanical Engineering, Springer Singapore | 978-981-15-0123-4 | 2020 | 879-891 |

13. Conference/ Workshop/Seminar/ Organized

| S. No. | Title of Seminar / Conferences / Short – term Courses | Funding / Sponsoring Agency | Date of Seminar / Conferences / Short – term Courses |
|--------|---|------------------------------------|--|
| 1. | A Five-day workshop on Entrepreneurship and Innovation as a Career Opportunity. | NIT Uttarakhand | 04-08 January, 2023 |
| 2. | Five-day Online Short-Term Course (STC) on Renewable Energy: Pathways and Technologies | NIT Uttarakhand | 31 st Oct-4 th Nov., 2022 |
| 3. | Five-day workshop on Pragmatic approach toward Innovations in Product Design and Manufacturing during at IIT Roorkee | DIC, NIT Uttarakhand | July 04 - 08, 2022 |
| 4. | One-week short term course on Computational and Experimental Techniques in Heat Transfer and Fluid Flows, at NIT Uttarakhand, | NIT Uttarakhand | March 01-05, 2021 |
| 5. | Two weeks international winter school on Fluid dynamics, Heat transfer and Applications, Organized by NIT Uttarakhand, | NIT Uttarakhand | Jan. 18-29, 2021 |
| 6. | International Conference on Advances in Materials Processing & Manufacturing Applications | MNIT Jaipur and NIT Uttarakhand | 05-06 Nov. 2020 |
| 7. | Six Days STTP on Computational Techniques and Programming jointly organized by NITUK and SLIET Longowal | TEQIP III sponsored under Twinning | 20-25 July 2020 |
| 8. | International conference on Innovative Engineering Design (ICoIED 2020) jointly with IEI Dehradun | NIT Uttarakhand | 18-20 Jan. 2020 |
| 9. | One-week short term training program (STTP) on Emerging Topics in Fluid | TEQIP III | 14-18 Oct. 2019 |

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| | Mechanics | | |
| 10 | State level exhibition cum innovation competition | Design and Innovation center (DIC) NIT Uttarakhand | 27 Sept. 2019 |
| 11 | Six days Workshop on Productivity Enhancement Program by Vyakti Vikas Kendra (Art of living) at NIT Uttarakhand | TEQIP III | 22-27 July 2019 |
| 12 | One-week Short Term course on Application of Statistics in Experimental Techniques, jointly organized by NIT Uttarakhand and MNIT Jaipur | TEQIP III | 29 July -02 August 2019 |
| 13 | Five days' workshop on Design thinking for Innovative products | DIC NIT Uttarakhand | 04-08 March 2019 |
| 14 | One day workshop on "Energy Audit and Energy Efficiency at NIT Uttarakhand | UREDA and UPSE Dehradun | 10 Dec. 2018 |

14. Symposium/ Workshop/Seminar/ Attended

| S. No. | Title of Seminar / Conferences / Short – term Courses | Date | Organizing Institute |
|--------|--|----------------------------------|------------------------------|
| 1 | Two day workshop on Adsorption for CO2 capture, Green Refrigeration &Energy Storage | 13-14 April 2024 | IIT (ISM) Dhanbad, Jharkhand |
| 2 | NEP 2020 Orientation and Sensitization Programme under Malaviya mission teacher training (MM-TTP) program of UGC | 18-31 March 2024 | IIT (ISM) Dhanbad, Jharkhand |
| 3 | A Five-Day Virtual Workshop on 3D Printing Applications and its Potential for Entrepreneurship | September 28 to October 02, 2023 | NIT Uttarakhand |
| 4. | Five Days FDP on Capacity building and Productivity Enhancement | 31 May - 4 June 2022 | NIT Uttarakhand |
| 5. | Online Professional Development Training Programme for Faculty & Administrators | 11-13 Jan 2021, | IIM Visakhapatnam |
| 6. | Advance Pedagogy (Online) course on Non-Fourier Heat Transfer under TEQIP-III-KITE | 11-13, 18-20 Dec 2020 | IIT Bombay |
| 7. | One week workshop on Writing research paper & Grand proposals: Scientific, Technical and Ethical Practices & conduct | 24-28 August 2020 | NIT Uttarakhand |
| 8. | Faculty development program (FDP) on Outcome based education (OBE) system, jointly organized by NBA section R&C section form | 20-25 July 2020 | NIT Uttarakhand |
| 9. | Faculty Awareness Programme on ONLINE TEACHING PEDAGOGY IN HIGHER EDUCATION | 11-14 June 2020 | NIFTEM Sonapat, Haryana |
| 10. | Two Days FDP on Importance of Intellectual Property in Academics | 25-26 Nov. 2019 | NIT Uttarakhand |
| 11. | Curriculum Development Workshop | 10-11th June 2019 | NIT Uttarakhand |

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| 12. | Professional Development training (PDT) under TEQIP III | 21-25 May 2018 | IIM Kashipur |
| 13. | Faculty development Program on Computer based product design and manufacturing | 09-13 Feb. 2018 | Electronic and ICT academy IITR & NIT Uttarakhand |
| 14. | Faculty development Program on Modern Pedagogy Techniques for Enhancing Teaching Skills | 24th – 28th July 2017 | NIT Uttarakhand |
| 15. | Three days' Workshop on Curriculum Design and Course | 17-19 Nov 2015 | BML Munjal University Gurgaon |
| 16. | IEEE Workshop on MEMS, Micro fluidics & Microsystems | 04-06th July 2013 | IIT Kharagpur |
| 17. | Short-term course on Application of Fluid Mechanics including CFD in Chemical & Allied Industries | 23-27 May 2011 | NITTTR Chandigarh |

15. Administrative Position Held:

| S. No. | Position held | Name of Organization | from | to |
|--------|---|----------------------|----------------------|------------|
| 1 | In-charge Advance Manufacturing Lab (SIEMENS Lab) | BIT Sindri | - | - |
| 2 | Coordinator, Standing Committee | NIT Uttarakhand | 28-11-2022 | 13-01-2023 |
| 3 | Member, NIRF Cell | | 21-04-2022 | 13-01-2023 |
| 4 | Coordinator, Convocation | | 22-06-2021 | 13-01-2023 |
| 5 | Coordinator (AISHE, NBA and NIRF Cell) | | 01-09-2021 | 20-04-2022 |
| 6 | Coordinator, Community Development | | 01-09-2021 | 20-04-2022 |
| 7 | Coordinator, Scholarship | | 01-06-2020 | 31-01-2021 |
| 8 | Dy. Center In-charge | | CSAB-2019, CCMT-2020 | |
| 9 | Nodal Officer-Scholarship | | 10-07-2019 | 01-06-2020 |
| 10 | Coordinator UG & PG-Scholarship | | 03-06-2019 | 01-06-2020 |
| 11 | Coordinator PG-Scholarship | | 12-07-2018 | 02-06-2019 |
| 12 | Nodal Officer (Academic)-TEQIP III | | 10-04-2018 | 31-01-2022 |
| 13 | Incharge-Dispensary | | 03-05-2017 | 02-06-2017 |
| 14 | Associate/Assistant Warden | | 18-07-2016 | 05-07-2018 |

16. Award / Recognition Bestowed on Faculty (State / National / International)

- Appreciation Letter by Director NIT Uttarakhand, for conducting *State level exhibition cum innovation competition* organized by Design and Innovation center (DIC) on 27Sept. 2019 at NIT Uttarakhand.
- Best paper award for the research paper titled “Bhoopendra Pandey, Yogesh K. Prajapati, Pratik N. Sheth, (2020), CFD Analysis of Biomass Gasification using

Downdraft Gasifier” presented in *International Conference on Advances in Materials Processing & Manufacturing Applications (iCADMA 2020)*, MNIT Jaipur 05-06 Nov. 2020.

- Appreciation certificate by Director NIT Uttarakhand, for conducting 2nd convocation of NIT Uttarakhand (on 25th Sept 2021) as Coordinator 2nd Convocation.
- Expert lecture of topic “**Understanding Product design**” in AICTE sponsored Five-day workshop on 3D Printing and Design, 16-20 Oct. 2019. At National Institute of Technology Uttarakhand.
- Expert talk on (25/07/2020) “Introduction to Workbench-ANSYS” in *Six Days STTP on Computational Techniques and Programming (TEQIP III sponsored under Twinning)* jointly organized by NITUK and SLIET Longowal from 20-25 July 2020.
- Guest lecture on (08 /08/2020) “**Fundamental theory of two-phase flows**” in Online STC on Computational Fluid Dynamics for Solving Engineering Problems, MNIT Jaipur 7-11 August 2020.
- Expert lecture on (20/03/2021) **Heat transfer enhancement using mini/microchannels**, STTP on Recent Advances in Fluids and Thermal Engineering (RAFT-2021) March 15 – 20, 2021 Department of Mechanical and Aerospace Engineering IITRAM Ahmedabad – 380026, Gujarat.
- Expert lecture on (22/02/2022) **Mini/microchannel heat sink as cooling device**, AICTE-QIP Short-Term Course on “Not-in-kind of Cooling Technologies and Thermal Management for Electronics” from 21st -26th February 2022, Department of Mechanical Engineering IIT Indore.
- Expert lecture on (21/12/2022) **CFD Modeling of fluid flow and heat transfer in miniµ channel heatsink**, A Five Days Short-Term Course on “CFD for Applied Engineering Problems with Hands-on Practice” from 19-23 Dec. 2022, NIT Rourkela.
- Invited to chair a session in *National conference on recent advances in Mechanical Engineering (NCRAME)*, NIT Kurukshetra 2-3 June 2017.
- Invited to chair a session in *International Conference on Advances in Materials Processing & Manufacturing Applications (iCADMA 2020)*, MNIT Jaipur 05-06 Nov. 2020.
- Chaired an oral presentation session in the international conference on Energy conversion and Thermo-fluid systems (i-CONNECTS 2021) Department of Mechanical Engineering MNIT Jaipur Nov. 19-20 2021. on Nov. 19, 2021

17. Members of Professional Bodies:

- Lifetime member of *Indian society for technical education (ISTE)*. Membership No (LM 76302).
- Life member National Society for Fluid Mechanics and Fluid Power (NSFMFP). Membership No: LM809
- Life member Indian Society for Heat and Mass Transfer (ISHMT). Membership No: 1485